

## **STIC Biotechnology Systems Branch**

### **RAW SEQUENCE LISTING** **ERROR REPORT**

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Application Serial Number: 10/567,749  
Source: IFWP  
Date Processed by STIC: 02/28/2006

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FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

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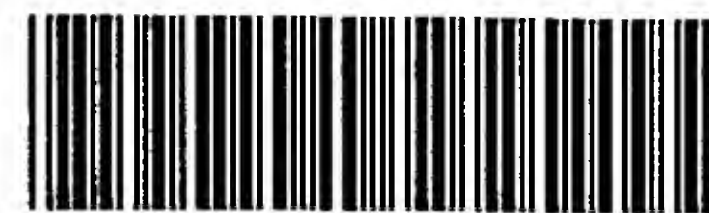
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1. EFS-Bio (<**<http://www.uspto.gov/ebc/efs/downloads/documents.htm>**> , EFS Submission User Manual - ePAVE)
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Revised 01/10/06



IFWP

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/567,749

DATE: 02/28/2006

TIME: 12:03:09

Input Set : A:\pto.da.txt

Output Set: N:\CRF4\02282006\J567749.raw

3 <110> APPLICANT: Degussa AG<120> *hard Return Enter* Process for the preparation of L-threonine<130>  
030235

C--&gt; 4 &lt;140&gt; CURRENT APPLICATION NUMBER: US/10/567,749

C--&gt; 4 &lt;141&gt; CURRENT FILING DATE: 2006-02-10

E--> 4 <160> NUMBER OF SEQ ID: 10 <170> *hard Return Enter* PatentIn version 3.1<210> 1<211> 993<212> DNA<213>

## ERRORED SEQUENCES

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E--&gt; 93

E--&gt; 93

E--&gt; 93 &lt;400&gt; SEQUENCE:

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94 1 5 10 15  
96 Phe Asp Glu Asn Gly Val Glu Val Phe Asp Glu Lys Ala Leu Val Glu  
97 20 25 30  
99 Gln Glu Pro Ser Asp Asn Asp Leu Ala Glu Glu Glu Leu Leu Ser Gln  
100 35 40 45  
102 Gly Ala Thr Gln Arg Val Leu Asp Ala Thr Gln Leu Tyr Leu Gly Glu  
103 50 55 60  
105 Ile Gly Tyr Ser Pro Leu Thr Ala Glu Glu Glu Val Tyr Phe Ala  
106 65 70 75 80  
109 Arg Arg Ala Leu Arg Gly Asp Val Ala Ser Arg Arg Arg Met Ile Glu  
110 85 90 95  
112 Ser Asn Leu Arg Leu Val Val Lys Ile Ala Arg Arg Tyr Gly Asn Arg  
113 100 105 110  
115 Gly Leu Ala Leu Leu Asp Leu Ile Glu Glu Gly Asn Leu Gly Leu Ile  
116 115 120 125  
118 Arg Ala Val Glu Lys Phe Asp Pro Glu Arg Gly Phe Arg Phe Ser Thr  
119 130 135 140  
121 Tyr Ala Thr Trp Trp Ile Arg Gln Thr Ile Glu Arg Ala Ile Met Asn  
122 145 150 155 160  
124 Gln Thr Arg Thr Ile Arg Leu Pro Ile His Ile Val Lys Glu Leu Asn  
125 165 170 175  
127 Val Tyr Leu Arg Thr Ala Arg Glu Leu Ser His Lys Leu Asp His Glu  
128 180 185 190  
130 Pro Ser Ala Glu Glu Ile Ala Glu Gln Leu Asp Lys Pro Val Asp Asp  
131 195 200 205  
133 Val Ser Arg Met Leu Arg Leu Asn Glu Arg Ile Thr Ser Val Asp Thr  
134 210 215 220

Does Not Comply  
Corrected Diskette Needed

*Cp9-1-11*

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Input Set : A:\pto.da.txt

Output Set: N:\CRF4\02282006\J567749.raw

136 Pro Leu Gly Gly Asp Ser Glu Lys Ala Leu Leu Asp Ile Leu Ala Asp  
 137 225 230 235 240  
 139 Glu Lys Glu Asn Gly Pro Glu Asp Thr Thr Gln Asp Asp Asp Met Lys  
 140 245 250 255  
 142 Gln Ser Ile Val Lys Trp Leu Phe Glu Leu Asn Ala Lys Gln Arg Glu  
 143 260 265 270  
 145 Val Leu Ala Arg Arg Phe Gly Leu Leu Gly Tyr Glu Ala Ala Thr Leu  
 146 275 280 285  
 148 Glu Asp Val Gly Arg Glu Ile Gly Leu Thr Arg Glu Arg Val Arg Gln  
 149 290 295 300  
 151 Ile Gln Val Glu Gly Leu Arg Arg Leu Arg Glu Ile Leu Gln Thr Gln  
 152 305 310 315 320  
 154 Gly Leu Asn Ile Glu Ala Leu Phe Arg Glu  
 155 325

E--> 157 <210> SEQ ID NO: 3<211> 993<212> DNA<213> Escherichia coli<220><221> Allele<222>  
 158 <223> OTHER INFORMATION: rpoS allele

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E--&gt; 162

E--&gt; 162

E--&gt; 162

162 &lt;400&gt; SEQUENCE: 3

163 atgagtcaga atacgctgaa agttcatgat ttaaatagaag atgcggaatt tgatgagaac 60  
 165 ggagttgagg tttttgacga aaaggcctta gtagaatagg aaccagtgta taacgatttg 120  
 167 gccgaagagg aactgttatc gcaggagacc acacagcgtg tggttgacgc gactcagctt 180  
 169 taccttggtg agattggtta ttcaccactg ttaacggccg aagaagaagt ttattttgcg 240  
 171 cgctgcgcac tgcgtggaga tgctgcctct cgccgccgga tgatcgagag taacttgctg 300  
 173 ctggtggtaa aaattgcccg ccgttatggc aatcgtggtc tggcgttgct ggaccttatc 360  
 175 gaagagggca acctggggct gatccgcgcg gtagagaagt ttgaccgga acgtggtttc 420  
 177 cgcttctcaa catacgcaac ctggtggatt cgccagacga ttgaacgggc gattatgaac 480  
 179 caaaccgta ctattcgttt gccgattcac atcgtaaagg agctgaacgt ttacctgcga 540  
 181 accgcacgtg agttgtccca taagctggac catgaaccaa gtgcggaaga gatcgagag 600  
 183 caactggata agccagttga tgacgtcagc cgtatgcttc gtcttaacga gcgcattacc 660  
 185 tcggtagaca ccccgctggg tgggtgattcc gaaaaagcgt tgctggacat cctggccgat 720  
 187 gaaaaagaga acggtccgga agataccacg caagatgacg atatgaagca gagcatcgtc 780  
 189 aaatggctgt tcgagctgaa cgccaaacag cgtgaagtgc tggcacgtcg attcggtttg 840  
 191 ctgggggtacg aagcggcaac actggaagat gtaggtcgtg aaattggcct caccgctgaa 900  
 193 cgtgttcgcc agattcaggt tgaaggcctg cgccgtttgc gcgaaatcct gcaaacgcag 960  
 195 gggctgaata tcgaagcgtt gttccgcgag taa 993

E--> 197 <210> SEQ ID NO: 4<211> 75<212> DNA<213> Escherichia coli<220><221> tRNA<222>

198 &lt;223&gt; OTHER INFORMATION: supE allele

E--&gt; 200 &lt;

E--&gt; 200

E--&gt; 200

E--&gt; 200 &lt;400&gt; SEQUENCE: 4

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 203 ctcgtacccc agcca 75

E--> 207 <210> SEQ ID NO: 5<211> 1545<212> DNA<213> Escherichia coli<220><221> CDS<222>

208 &lt;223&gt; OTHER INFORMATION: ilvA-Gen

E--&gt; 210

## RAW SEQUENCE LISTING

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Input Set : A:\pto.da.txt

Output Set: N:\CRF4\02282006\J567749.raw

E--&gt; 210 .

E--&gt; 210 .

E--&gt; 210 &lt;400&gt; SEQUENCE: 5

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212	Met Ala Asp Ser Gln Pro Leu Ser Gly Ala Pro Glu Gly Ala Glu Tyr	
213	1 5 10 15	
215	tta aga gca gtg ctg cgc gcg ccg gtt tac gag gcg gcg cag gtt acg	96
216	Leu Arg Ala Val Leu Arg Ala Pro Val Tyr Glu Ala Ala Gln Val Thr	
217	20 25 30	
219	ccg cta caa aaa atg gaa aaa ctg tcg tcg cgt ctt gat aac gtc att	144
220	Pro Leu Gln Lys Met Glu Lys Leu Ser Ser Arg Leu Asp Asn Val Ile	
221	35 40 45	
223	ctg gtg aag cgc gaa gat cgc cag cca gtg cac agc ttt aag ctg cgc	192
224	Leu Val Lys Arg Glu Asp Arg Gln Pro Val His Ser Phe Lys Leu Arg	
225	50 55 60	
227	ggc gca tac gcc atg atg gcg ggc ctg acg gaa gaa cag aaa gcg cac	240
228	Gly Ala Tyr Ala Met Met Ala Gly Leu Thr Glu Glu Gln Lys Ala His	
229	65 70 75 80	
231	ggc gta atc act gct tct gcg ggt aac cac gcg cag ggc gac gcg ttt	288
232	Gly Val Ile Thr Ala Ser Ala Gly Asn His Ala Gln Gly Val Ala Phe	
233	85 90 95	
235	tct tct gcg cgg tta ggc gtg aag gcc ctg atc gtt atg cca acc gcc	336
236	Ser Ser Ala Arg Leu Gly Val Lys Ala Leu Ile Val Met Pro Thr Ala	
237	100 105 110	
239	acc gcc gac atc aaa gtc gac gcg gtg cgc ggc ttc ggc ggc gaa gtg	384
240	Thr Ala Asp Ile Lys Val Asp Ala Val Arg Gly Phe Gly Gly Glu Val	
241	115 120 125	
243	ctg ctc cac ggc gcg aac ttt gat gaa gcg aaa gcc aaa gcg atc gaa	432
244	Leu Leu His Gly Ala Asn Phe Asp Glu Ala Lys Ala Lys Ala Ile Glu	
245	130 135 140	
247	ctg tca cag cag cag ggg ttc acc tgg gtg ccg ccg ttc gac cat ccg	480
248	Leu Ser Gln Gln Gln Gly Phe Thr Trp Val Pro Pro Phe Asp His Pro	
249	145 150 155 160	
251	atg gtg att gcc ggg caa ggc acg ctg gcg ctg gaa ctg ctc cag cag	528
252	Met Val Ile Ala Gly Gln Gly Thr Leu Ala Leu Glu Leu Leu Gln Gln	
253	165 170 175	
255	gac gcc cat ctc gac cgc gta ttt gtg cca gtc ggc ggc ggc ggt ctg	576
256	Asp Ala His Leu Asp Arg Val Phe Val Pro Val Gly Gly Gly Gly Leu	
257	180 185 190	
259	gct gct ggc gtg gcg gtg ctg atc aaa caa ctg atg ccg caa atc aaa	624
260	Ala Ala Gly Val Ala Val Leu Ile Lys Gln Leu Met Pro Gln Ile Lys	
261	195 200 205	
264	gtg atc gcc gta gaa gcg gaa gac tcc gcc tgc ctg aaa gca gcg ctg	672
265	Val Ile Ala Val Glu Ala Glu Asp Ser Ala Cys Leu Lys Ala Ala Leu	
266	210 215 220	
268	gat gcg ggt cat ccg gtt gat ctg ccg cgc gta ggg cta ttt gct gaa	720
269	Asp Ala Gly His Pro Val Asp Leu Pro Arg Val Gly Leu Phe Ala Glu	
270	225 230 235 240	
272	ggc gta gcg gta aaa cgc atc ggt gac gaa acc ttc cgt tta tgc cag	768

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Input Set : A:\pto.da.txt

Output Set: N:\CRF4\02282006\J567749.raw

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274				245						250					255		
276	gag	tat	ctc	gac	gac	atc	atc	acc	gtc	gat	agc	gat	gcg	atc	tgt	gcg	816
277	Glu	Tyr	Leu	Asp	Asp	Ile	Ile	Thr	Val	Asp	Ser	Asp	Ala	Ile	Cys	Ala	
278				260						265					270		
280	gcg	atg	aag	gat	tta	ttc	gaa	gat	gtg	cgc	gcg	gtg	gcg	gaa	ccc	tct	864
281	Ala	Met	Lys	Asp	Leu	Phe	Glu	Asp	Val	Arg	Ala	Val	Ala	Glu	Pro	Ser	
282				275						280					285		
284	ggc	gcg	ctg	gcg	ctg	gcg	gga	atg	aaa	aaa	tat	atc	gcc	ctg	cac	aac	912
285	Gly	Ala	Leu	Ala	Leu	Ala	Gly	Met	Lys	Lys	Tyr	Ile	Ala	Leu	His	Asn	
286		290						295					300				
288	att	cgc	ggc	gaa	cgg	ctg	gcg	cat	att	ctt	tcc	ggt	gcc	aac	gtg	aac	960
289	Ile	Arg	Gly	Glu	Arg	Leu	Ala	His	Ile	Leu	Ser	Gly	Ala	Asn	Val	Asn	
290	305						310					315				320	
292	ttc	cac	ggc	ctg	cgc	tac	gtc	tca	gaa	cgc	tgc	gaa	ctg	ggc	gaa	cag	1008
293	Phe	His	Gly	Leu	Arg	Tyr	Val	Ser	Glu	Arg	Cys	Glu	Leu	Gly	Glu	Gln	
294					325					330					335		
296	cgt	gaa	gcg	ttg	ttg	gcg	gtg	acc	att	ccg	gaa	gaa	aaa	ggc	agc	ttc	1056
297	Arg	Glu	Ala	Leu	Leu	Ala	Val	Thr	Ile	Pro	Glu	Glu	Lys	Gly	Ser	Phe	
298				340					345					350			
300	ctc	aaa	ttc	tgc	caa	ctg	ctt	ggc	ggg	cgt	tcg	gtc	acc	gag	ttc	aac	1104
301	Leu	Lys	Phe	Cys	Gln	Leu	Leu	Gly	Gly	Arg	Ser	Val	Thr	Glu	Phe	Asn	
302				355					360					365			
304	tac	cgt	ttt	gcc	gat	gcc	aaa	aac	gcc	tgc	atc	ttt	gtc	ggt	gtg	cgc	1152
305	Tyr	Arg	Phe	Ala	Asp	Ala	Lys	Asn	Ala	Cys	Ile	Phe	Val	Gly	Val	Arg	
306		370						375					380				
308	ctg	agc	cgc	ggc	ctc	gaa	gag	cgc	aaa	gaa	att	ttg	cag	atg	ctc	aac	1200
309	Leu	Ser	Arg	Gly	Leu	Glu	Glu	Arg	Lys	Glu	Ile	Leu	Gln	Met	Leu	Asn	
310	385					390					395					400	
312	gac	ggc	ggc	tac	agc	gtg	gtt	gat	ctc	tcc	gac	gac	gaa	atg	gcg	aag	1248
313	Asp	Gly	Gly	Tyr	Ser	Val	Val	Asp	Leu	Ser	Asp	Asp	Glu	Met	Ala	Lys	
314				405						410					415		
316	cta	cac	gtg	cgc	tat	atg	gtc	ggc	gga	cgt	cca	tcg	cat	ccg	ttg	cag	1296
317	Leu	His	Val	Arg	Tyr	Met	Val	Gly	Gly	Arg	Pro	Ser	His	Pro	Leu	Gln	
318				420						425					430		
320	gaa	cgc	ctc	tac	agc	ttc	gaa	ttc	ccg	gaa	tca	ccg	ggc	gcg	ctg	ctg	1344
321	Glu	Arg	Leu	Tyr	Ser	Phe	Glu	Phe	Pro	Glu	Ser	Pro	Gly	Ala	Leu	Leu	
322				435					440					445			
324	cgc	ttc	ctc	aac	acg	ctg	ggt	acg	tac	tgg	aac	att	tct	ttg	ttc	cac	1392
325	Arg	Phe	Leu	Asn	Thr	Leu	Gly	Thr	Tyr	Trp	Asn	Ile	Ser	Leu	Phe	His	
326		450						455					460				
329	tat	cgc	agc	cat	ggc	acc	gac	tac	ggg	cgc	gta	ctg	gcg	gcg	ttc	gaa	1440
330	Tyr	Arg	Ser	His	Gly	Thr	Asp	Tyr	Gly	Arg	Val	Leu	Ala	Ala	Phe	Glu	
331	465					470					475					480	
333	ctt	ggc	gac	cat	gaa	ccg	gat	ttc	gaa	acc	cgg	ctg	aat	gag	ctg	ggc	1488
334	Leu	Gly	Asp	His	Glu	Pro	Asp	Phe	Glu	Thr	Arg	Leu	Asn	Glu	Leu	Gly	
335				485						490					495		
337	tac	gat	tgc	cac	gac	gaa	acc	aat	aac	ccg	gcg	ttc	agg	ttc	ttt	ttg	1536
338	Tyr	Asp	Cys	His	Asp	Glu	Thr	Asn	Asn	Pro	Ala	Phe	Arg	Phe	Phe	Leu	



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TIME: 12:03:09

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341 gcg ggt tag

342 Ala Gly

E--> 345 <210> SEQ ID NO: 6<211> 514<212> PRT<213> Escherichia coli

E--> 346 .

E--> 346

E--> 346 .

W--> 346 <400> SEQUENCE: 6

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350 Leu Arg Ala Val Leu Arg Ala Pro Val Tyr Glu Ala Ala Gln Val Thr

351 20 25 30

353 Pro Leu Gln Lys Met Glu Lys Leu Ser Ser Arg Leu Asp Asn Val Ile

354 35 40 45

356 Leu Val Lys Arg Glu Asp Arg Gln Pro Val His Ser Phe Lys Leu Arg

357 50 55 60

359 Gly Ala Tyr Ala Met Met Ala Gly Leu Thr Glu Glu Gln Lys Ala His

360 65 70 75 80

362 Gly Val Ile Thr Ala Ser Ala Gly Asn His Ala Gly Gly Val Ala Phe

363 85 90 95

365 Ser Ser Ala Arg Leu Gly Val Lys Ala Leu Ile Val Met Pro Thr Ala

366 100 105 110

368 Thr Ala Asp Ile Lys Val Asp Ala Val Arg Gly Phe Gly Gly Glu Val

369 115 120 125

371 Leu Leu His Gly Ala Asn Phe Asp Glu Ala Lys Ala Lys Ala Ile Glu

372 130 135 140

374 Leu Ser Gln Gln Gln Gly Phe Thr Trp Val Pro Pro Phe Asp His Pro

375 145 150 155 160

377 Met Val Ile Ala Gly Gln Gly Thr Leu Ala Leu Glu Leu Leu Gln Gln

378 165 170 175

380 Asp Ala His Leu Asp Arg Val Phe Val Pro Val Gly Gly Gly Gly Leu

381 180 185 190

383 Ala Ala Gly Val Ala Val Leu Ile Lys Gln Leu Met Pro Gln Ile Lys

384 195 200 205

386 Val Ile Ala Val Glu Ala Glu Asp Ser Ala Cys Leu Lys Ala Ala Leu

387 210 215 220

390 Asp Ala Gly His Pro Val Asp Leu Pro Arg Val Gly Leu Phe Ala Glu

391 225 230 235 240

393 Gly Val Ala Val Lys Arg Ile Gly Asp Glu Thr Phe Arg Leu Cys Gln

394 245 250 255

396 Glu Tyr Leu Asp Asp Ile Ile Thr Val Asp Ser Asp Ala Ile Cys Ala

397 260 265 270

399 Ala Met Lys Asp Leu Phe Glu Asp Val Arg Ala Val Ala Glu Pro Ser

400 275 280 285

402 Gly Ala Leu Ala Leu Ala Gly Met Lys Lys Tyr Ile Ala Leu His Asn

403 290 295 300

405 Ile Arg Gly Glu Arg Leu Ala His Ile Leu Ser Gly Ala Asn Val Asn

406 305 310 315 320

408 Phe His Gly Leu Arg Tyr Val Ser Glu Arg Cys Glu Leu Gly Glu Gln

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411 Arg Glu Ala Leu Leu Ala Val Thr Ile Pro Glu Glu Lys Gly Ser Phe
412          340          345          350
414 Leu Lys Phe Cys Gln Leu Leu Gly Gly Arg Ser Val Thr Glu Phe Asn
415          355          360          365
417 Tyr Arg Phe Ala Asp Ala Lys Asn Ala Cys Ile Phe Val Gly Val Arg
418          370          375          380
420 Leu Ser Arg Gly Leu Glu Glu Arg Lys Glu Ile Leu Gln Met Leu Asn
421 385          390          395          400
423 Asp Gly Gly Tyr Ser Val Val Asp Leu Ser Asp Asp Glu Met Ala Lys
424          405          410          415
426 Leu His Val Arg Tyr Met Val Gly Gly Arg Pro Ser His Pro Leu Gln
427          420          425          430
429 Glu Arg Leu Tyr Ser Phe Glu Phe Pro Glu Ser Pro Gly Ala Leu Leu
430          435          440          445
432 Arg Phe Leu Asn Thr Leu Gly Thr Tyr Trp Asn Ile Ser Leu Phe His
433          450          455          460
435 Tyr Arg Ser His Gly Thr Asp Tyr Gly Arg Val Leu Ala Ala Phe Glu
436 465          470          475          480
438 Leu Gly Asp His Glu Phe Asp Phe Glu Thr Arg Leu Asn Glu Leu Gly
439          485          490          495
441 Tyr Asp Cys His Asp Glu Thr Asn Asn Pro Ala Phe Arg Phe Phe Leu
442          500          505          510
444 Ala Gly
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E--> 455
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458 1          5          10          15
460 tta aga gca gtg ctg cgc gcg ccg gtt tac gag gcg gcg cag gtt acg      96
461 Leu Arg Ala Val Leu Arg Ala Pro Val Tyr Glu Ala Ala Gln Val Thr
462          20          25          30
464 ccg cta caa aaa atg gaa aaa ctg tcg tcg cgt ctt gat aac gtc att      144
465 Pro Leu Gln Lys Met Glu Lys Leu Ser Ser Arg Leu Asp Asn Val Ile
466          35          40          45
468 ctg gtg aag cgc gaa gat cgc cag cca gtg cac agc ttt aag ctg cgc      192
469 Leu Val Lys Arg Glu Asp Arg Gln Pro Val His Ser Phe Lys Leu Arg
470          50          55          60
472 ggc gca tac gcc atg atg gcg ggc ctg acg gaa gaa cag aaa gcg cac      240
473 Gly Ala Tyr Ala Met Met Ala Gly Leu Thr Glu Glu Gln Lys Ala His
474 65          70          75          80
476 ggc gtg atc act gct tct gcg ggt aac cac gcg cag ggc gtc gcg ttt      288
477 Gly Val Ile Thr Ala Ser Ala Gly Asn His Ala Gln Gly Val Ala Phe
478          85          90          95

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Same  
Error  
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482				100					105					110			
484	acc	gcc	gac	atc	aaa	gtc	gac	gcg	gtg	cgc	ggc	ttc	ggc	ggc	gaa	gtg	384
485	Thr	Ala	Asp	Ile	Lys	Val	Asp	Ala	Val	Arg	Gly	Phe	Gly	Gly	Glu	Val	
486			115					120					125				
488	ctg	ctc	cac	ggc	gcg	aac	ttt	gat	gaa	gcg	aaa	gcc	aaa	gcg	atc	gaa	432
489	Leu	Leu	His	Gly	Ala	Asn	Phe	Asp	Glu	Ala	Lys	Ala	Lys	Ala	Ile	Glu	
490		130					135					140					
492	ctg	tca	cag	cag	cag	ggg	ttc	acc	tgg	gtg	ccg	ccg	ttc	gac	cat	ccg	480
493	Leu	Ser	Gln	Gln	Gln	Gly	Phe	Thr	Trp	Val	Pro	Pro	Phe	Asp	His	Pro	
494	145					150					155					160	
496	atg	gtg	att	gcc	ggg	caa	ggc	acg	ctg	gcg	ctg	gaa	ctg	ctc	cag	cag	528
497	Met	Val	Ile	Ala	Gly	Gln	Gly	Thr	Leu	Ala	Leu	Glu	Leu	Leu	Gln	Gln	
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500	gac	gcc	cat	ctc	gac	cgc	gta	ttt	gtg	cca	gtc	ggc	ggc	ggc	ggg	ctg	576
501	Asp	Ala	His	Leu	Asp	Arg	Val	Phe	Val	Pro	Val	Gly	Gly	Gly	Gly	Leu	
502			180					185						190			
504	ggt	ggt	ggc	gtg	ggg	gtg	ctg	atc	aaa	caa	atg	atg	ccg	caa	atc	aaa	624
505	Ala	Ala	Gly	Val	Ala	Val	Leu	Ile	Lys	Gln	Leu	Met	Pro	Gln	Ile	Lys	
506			195				200					205					
509	gtg	atc	gcc	gta	gaa	gcg	gaa	gac	tcc	gcc	tgc	ctg	aaa	gca	gcg	ctg	672
510	Val	Ile	Ala	Val	Glu	Ala	Glu	Asp	Ser	Ala	Cys	Leu	Lys	Ala	Ala	Leu	
511		210					215					220					
513	gat	gcg	ggg	cat	ccg	gtt	gat	ctg	ccg	cgc	gta	ggg	cta	ttt	gct	gaa	720
514	Asp	Ala	Gly	His	Pro	Val	Asp	Leu	Pro	Arg	Val	Gly	Leu	Phe	Ala	Glu	
515	225				230					235					240		
517	ggc	gta	gcg	gta	aaa	cgc	atc	ggg	gac	gaa	acc	ttc	cgt	tta	tgc	cag	768
518	Gly	Val	Ala	Val	Lys	Arg	Ile	Gly	Asp	Glu	Thr	Phe	Arg	Leu	Cys	Gln	
519				245				250						255			
521	gag	tat	ctc	gac	gac	atc	atc	acc	gtc	gat	agc	gat	gcg	atc	tgt	gcg	816
522	Glu	Tyr	Leu	Asp	Asp	Ile	Ile	Thr	Val	Asp	Ser	Asp	Ala	Ile	Cys	Ala	
523			260					265					270				
525	gcg	atg	aag	gat	tta	ttc	gaa	gat	gtg	cgc	gcg	gtg	gcg	aaa	ccc	tct	864
526	Ala	Met	Lys	Asp	Leu	Phe	Glu	Asp	Val	Arg	Ala	Val	Ala	Lys	Pro	Ser	
527			275					280					285				
529	ggc	gcg	ctg	gcg	ctg	gcg	gga	atg	aaa	aaa	tat	atc	gcc	ctg	cac	aac	912
530	Gly	Ala	Leu	Ala	Leu	Ala	Gly	Met	Lys	Lys	Tyr	Ile	Ala	Leu	His	Asn	
531		290					295					300					
533	att	cgc	ggc	gaa	cgg	ctg	gcg	cat	att	ctt	tcc	ggg	gcc	aac	gtg	aac	960
534	Ile	Arg	Gly	Glu	Arg	Leu	Ala	His	Ile	Leu	Ser	Gly	Ala	Asn	Val	Asn	
535	305				310						315				320		
537	ttc	cac	ggc	ctg	cgc	tac	gtc	tca	gaa	cgc	tgc	gaa	ctg	ggc	gaa	cag	1008
538	Phe	His	Gly	Leu	Arg	Tyr	Val	Ser	Glu	Arg	Cys	Glu	Leu	Gly	Glu	Gln	
539				325				330					335				
541	cgt	gaa	gcg	ttg	ttg	gcg	gtg	acc	att	ccg	gaa	gaa	aaa	ggc	agc	ttc	1056
542	Arg	Glu	Ala	Leu	Leu	Ala	Val	Thr	Ile	Pro	Glu	Glu	Lys	Gly	Ser	Phe	
543			340					345					350				
545	ctc	aaa	ttc	tgc	caa	ctg	ctt	ggc	ggg	cgt	tcg	gtc	acc	gag	ttc	aac	1104



## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/567,749

DATE: 02/28/2006

TIME: 12:03:09

Input Set : A:\pto.da.txt

Output Set: N:\CRF4\02282006\J567749.raw

```

546 Leu Lys Phe Cys Gln Leu Leu Gly Gly Arg Ser Val Thr Glu Phe Asn
547          355          360          365
549 tac cgt ttt gcc gat gcc aaa aac gcc tgc atc ttt gtc ggt gtg cgc      1152
550 Tyr Arg Phe Ala Asp Ala Lys Asn Ala Cys Ile Phe Val Gly Val Arg
551          370          375          380
553 ctg agc cgc ggc ctc gaa gag cgc aaa gaa att ttg cag atg ctc aac      1200
554 Leu Ser Arg Gly Leu Glu Glu Arg Lys Glu Ile Leu Gln Met Leu Asn
555 385          390          395          400
557 gac ggc ggc tac agc gtg gtt gat ctc tcc gac gac gaa atg gcg aag      1248
558 Asp Gly Gly Tyr Ser Val Val Asp Leu Ser Asp Asp Glu Met Ala Lys
559          405          410          415
561 cta cac gtg cgc tat atg gtc ggc gga cgt cca tcg cat ccg ttg cag      1296
562 Leu His Val Arg Tyr Met Val Gly Gly Arg Pro Ser His Pro Leu Gln
563          420          425          430
565 gaa cgc ctc tac agc ttc gaa ttc ccg gaa tca ccg ggc gcg ctg ctg      1344
566 Glu Arg Leu Tyr Ser Phe Glu Phe Pro Glu Ser Pro Gly Ala Leu Leu
567          435          440          445
569 cgc ttc ctc aac acg ctg ggt acg tac tgg aac att tct ttg ttc cac      1392
570 Arg Phe Val Asn Thr Leu Gly Thr Tyr Trp Asn Ile Ser Leu Phe Val
571          450          455          460
574 tat cgc agc cat ggc acc gac tac ggg cgc gta ctg gcg gcg ttc gaa      1440
575 Tyr Arg Ser His Gly Thr Asp Tyr Gly Arg Val Leu Ala Ala Phe Glu
576 465          470          475          480
578 ctt ggc gac cat gaa ccg gat ttc gaa acc ccg ctg aat gag ctg ggc      1488
579 Leu Gly Asp His Glu Pro Asp Phe Glu Thr Arg Leu Asn Glu Leu Gly
580          485          490          495
582 tac gat tgc cac gac gaa acc aat aac ccg gcg ttc agg ttc ttt ttg      1536
583 Tyr Asp Cys His Asp Glu Thr Asn Asn Pro Ala Phe Arg Phe Phe Leu
584          500          505          510
586 gcg ggt tag
587 Ala Gly

```

*hard Return Error*

E--&gt; 590 &lt;210&gt; SEQ ID NO: 8&lt;211&gt; 514&lt;212&gt; PRT&lt;213&gt; Escherichia coli

E--&gt; 591

E--&gt; 591

E--&gt; 591

W--&gt; 591 &lt;400&gt; SEQUENCE: 8

```

592 Met Ala Asp Ser Gln Pro Leu Ser Gly Ala Pro Glu Gly Ala Glu Tyr
593 1          5          10          15
595 Leu Arg Ala Val Leu Arg Ala Pro Val Tyr Glu Ala Ala Gln Val Thr
596          20          25          30
598 Pro Leu Gln Lys Met Glu Lys Leu Ser Ser Arg Leu Asp Asn Val Ile
599          35          40          45
601 Leu Val Lys Arg Glu Asp Arg Gln Pro Val His Ser Phe Lys Leu Arg
602          50          55          60
604 Gly Ala Tyr Ala Met Met Ala Gly Leu Thr Glu Glu Gln Lys Ala His
605 65          70          75          80
607 Gly Val Ile Thr Ala Ser Ala Gly Asn His Ala Gln Gly Val Ala Phe
608          85          90          95
610 Ser Ser Ala Arg Leu Gly Val Lys Ala Leu Ile Val Met Pro Thr Ala

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/567,749

DATE: 02/28/2006

TIME: 12:03:09

Input Set : A:\pto.da.txt

Output Set: N:\CRF4\02282006\J567749.raw

611		100		105		110
613	Thr	Ala	Asp	Ile	Lys	Val
614		115		120		125
616	Leu	Leu	His	Gly	Ala	Asn
617		130		135		140
619	Leu	Ser	Gln	Gln	Gln	Gly
620	145			150		155
622	Met	Val	Ile	Ala	Gly	Gln
623		165		170		175
625	Asp	Ala	His	Leu	Asp	Arg
626		180		185		190
629	Ala	Ala	Gly	Val	Ala	Val
630		195		200		205
632	Val	Ile	Ala	Val	Glu	Ala
633		210		215		220
635	Asp	Ala	Gly	His	Pro	Val
636	225			230		235
638	Gly	Val	Ala	Val	Lys	Arg
639		245		250		255
641	Glu	Tyr	Leu	Asp	Asp	Ile
642		260		265		270
644	Ala	Met	Lys	Asp	Leu	Phe
645		275		280		285
647	Gly	Ala	Leu	Ala	Leu	Ala
648		290		295		300
650	Ile	Arg	Gly	Glu	Arg	Leu
651	305			310		315
653	Phe	His	Gly	Leu	Arg	Tyr
654		325		330		335
656	Arg	Glu	Ala	Leu	Leu	Ala
657		340		345		350
659	Leu	Lys	Phe	Cys	Gln	Leu
660		355		360		365
662	Tyr	Arg	Phe	Ala	Asp	Ala
663		370		375		380
665	Leu	Ser	Arg	Gly	Leu	Glu
666	385			390		395
668	Asp	Gly	Gly	Tyr	Ser	Val
669		405		410		415
671	Leu	His	Val	Arg	Tyr	Met
672		420		425		430
674	Glu	Arg	Leu	Tyr	Ser	Phe
675		435		440		445
677	Arg	Phe	Leu	Asn	Thr	Leu
678		450		455		460
680	Tyr	Arg	Ser	His	Gly	Thr
681	465			470		475
683	Leu	Gly	Asp	His	Glu	Pro
684		485		490		495

## RAW SEQUENCE LISTING

DATE: 02/28/2006

PATENT APPLICATION: US/10/567,749

TIME: 12:03:09

Input Set : A:\pto.da.txt

Output Set: N:\CRF4\02282006\J567749.raw

```

686 Tyr Asp Cys His Asp Glu Thr Asn Asn Pro Ala Phe Arg Phe Phe Leu
687          500          505          510
689 Ala Gly
E--> 692 <210> SEQ ID NO: 9<211> 1548<212> DNA<213> Escherichia coli
W--> 694 <220> FEATURE:<221> DNA<222> (1)..(1548)<223>
W--> 695
E--> 696
E--> 698
E--> 698
698 <400> SEQUENCE: 9
699 tcgcatctg gtactgtaag gggaaataga gatgacacac gataataaat tgcaggttga      60
701 agctattaaa cgcggcacgg taattgacca tatccccgcc cagatcgggt ttaagctgtt      120
703 gagtctgttc aagctgaccg aaacggatca gcgcatcacc attggtctga acctgccttc      180
705 tggcgagatg ggccgcaaag atctgatcaa aatcgaaaat acctttttga gtgaagatca      240
707 agtagatcaa ctggcattgt atgcgcgcga agccacgggt aaccgtatcg acaactatga      300
709 agtgggtgggt aaatcgcgcc caagtctgcc ggagcgcacg gacaatgtgc tggctctgcc      360
711 gaacagcaac tgtatcagcc atgccgaacc ggtttcatcc agctttgccg tgcgaaaacg      420
713 cgccaatgat atcgcgctca aatgcaaata ctgtgaaaaa gagttttccc ataatgtggt      480
715 gctggcactt taattggcgt tggtaataaa agtctggctc cctata atg agc agc      535
716 Met Ser Gln
717
719 act ttt tac cgc tgt aat aaa gga gaa atc atg agc aaa act atc gcg      583
720 Thr Phe Tyr Arg Cys Asn Lys Gly Glu Ile Met Ser Lys Thr Ile Ala
721      5      10      15
723 acg gaa aat gca ccg gca gct atc ggt cct tac gta cag ggc gtt gat      631
724 Thr Glu Asn Ala Pro Ala Ala Ile Gly Pro Tyr Val Gln Gly Val Asp
725 20      25      30      35
727 ctg ggc aat atg atc atc acc tcc ggt cag atc ccg gta aat ccg aaa      679
728 Leu Gly Asn Met Ile Ile Thr Ser Gly Gln Ile Pro Val Asn Pro Lys
729      40      45      50
731 acg ggc gaa gta ccg gca gac gtc gct gca cag gca cgt cag tcg ctg      727
732 Thr Gly Glu Val Pro Ala Asp Val Ala Ala Gln Ala Arg Gln Ser Leu
733      55      60      65
735 gat aac gta aaa gcg atc gtc gaa gcc gct ggc ctg aaa gtg ggc gac      775
736 Asp Asn Val Lys Ala Ile Val Glu Ala Ala Gly Leu Lys Val Gly Asp
737      70      75      80
739 atc gtt aaa act acc gtg ttt gta aaa gat ctg aac gac ttc gca acc      823
740 Ile Val Lys Thr Thr Val Phe Val Lys Asp Leu Asn Asp Phe Ala Thr
741      85      90      95
743 gta aac gcc act tac gaa gcc ttc ttc acc gaa cac aac gcc acc ttc      871
744 Val Asn Ala Thr Tyr Glu Ala Phe Phe Thr Glu His Asn Ala Thr Phe
745 100      105      110      115
747 ccg gca cgt tct tgc gtt gaa gtt gcc cgt ctg ccg aaa gac gtg aag      919
748 Pro Ala Arg Ser Cys Val Glu Val Ala Arg Leu Pro Lys Asp Val Lys
749      120      125      130
752 att gag atc gaa gcg atc gct gtt cgt cgc taa tcttgatgga aatccgggct      972
753 Ile Glu Ile Glu Ala Ile Ala Val Arg Arg
754      135      140
756 atcatgcccg gattaagtct gatgacaaac gcaaaatcgc ctgatgcgct acgcttatca      1032

```

## RAW SEQUENCE LISTING

DATE: 02/28/2006

PATENT APPLICATION: US/10/567,749

TIME: 12:03:09

Input Set : A:\pto.da.txt

Output Set: N:\CRF4\02282006\J567749.raw

```

758 ggcctacgtg attcctgcaa tttattgaat ttgttggccg gataaggcat ttacgccgca 1092
760 tccggcatga acaaaactca ctttgtctac aatctgaatc ggggctatcg tgcccagttt 1152
762 attctttatt gccagccgta acgacggcta tagaaccctt tcaccaactg ggttaatgtc 1212
764 atataccctg ccagaatcgc aaccagccac gggaaatagc ttaacggcag cgcctgtaat 1272
766 tgcagataac tggccagcgg tgaaaacggc aatgcgatcc cgacaatcat cacgatcacg 1332
768 gtcgatgatca ttaacggcca cgatgcacag ctctgaataa acggcacacg gcgggtgcgg 1392
770 atcatatgca caatcagcgt ttgcgacagt aagcccacca caaacatcc cgactggaac 1452
772 agcgtttgcg tttccggcgt gttggcatgg aatacccacc acatcaggca aaacgtcaaa 1512
774 atatcgaaga tcgagctgat cgggccgaag aagatc 1548

```

E--&gt; 777 &lt;210&gt; SEQ ID NO: 10&lt;211&gt; 141&lt;212&gt; PRT&lt;213&gt; Escherichia coli

E--&gt; 778 -

E--&gt; 778 .

E--&gt; 778 :

W--&gt; 778 &lt;400&gt; SEQUENCE: 10

```

779 Met Ser Gln Thr Phe Tyr Arg Cys Asn Lys Gly Glu Ile Met Ser Lys
780 1 5 10 15
782 Thr Ile Ala Thr Glu Asn Ala Pro Ala Ala Ile Gly Pro Tyr Val Gln
783 20 25 30
785 Gly Val Asp Leu Gly Asn Met Ile Thr Ser Gly Gln Ile Pro Val
786 35 40 45
788 Asn Pro Lys Thr Gly Glu Val Pro Ala Asp Val Ala Ala Gln Ala Arg
789 50 55 60
791 Gln Ser Leu Asp Asn Val Lys Ala Ile Val Glu Ala Ala Gly Leu Lys
792 65 70 75 80
794 Val Gly Asp Ile Val Lys Thr Thr Val Phe Val Lys Asp Leu Asn Asp
795 85 90 95
797 Phe Ala Thr Val Asn Ala Thr Tyr Glu Ala Phe Phe Thr Glu His Asn
798 100 105 110
800 Ala Thr Phe Pro Ala Arg Ser Cys Val Glu Val Ala Arg Leu Pro Lys
801 115 120 125
803 Asp Val Lys Ile Glu Ile Glu Ala Ile Ala Val Arg Arg
804 130 135 140

```

## VERIFICATION SUMMARY

DATE: 02/28/2006

PATENT APPLICATION: US/10/567,749

TIME: 12:03:11

Input Set : A:\pto.da.txt

Output Set: N:\CRF4\02282006\J567749.raw

L:4 M:270 C: Current Application Number differs, Replaced Current Application No  
 L:4 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
 L:0 M:282 E: Numeric Field Identifier Missing, <120> TITLE INVENTION  
 L:0 M:201 W: Mandatory field data missing, <130> FILE REFERENCE  
 L:4 M:283 W: Missing Blank Line separator, <160> field identifier  
 L:5 M:281 W: Numeric Fields not Ordered, <220> not ordered!.  
 L:5 M:283 W: Missing Blank Line separator, <220> field identifier  
 L:5 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
 L:7 M:282 E: Numeric Field Identifier Missing, <210> is required.  
 L:7 M:282 E: Numeric Field Identifier Missing, <211> is required.  
 L:7 M:282 E: Numeric Field Identifier Missing, <212> is required.  
 L:7 M:282 E: Numeric Field Identifier Missing, <213> is required.  
 L:7 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:0 differs:1  
 L:92 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO: 2<211> 330<212>  
 PRT<213> Escherichia coli<400> 2  
 L:93 M:282 E: Numeric Field Identifier Missing, <211> is required.  
 L:93 M:282 E: Numeric Field Identifier Missing, <212> is required.  
 L:93 M:282 E: Numeric Field Identifier Missing, <213> is required.  
 L:93 M:200 E: Mandatory Header Field missing, <400> is required.  
 L:157 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO: 3<211> 993<212>  
 DNA<213> Escherichia coli<220><221> Allele<222>  
 L:160 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
 L:162 M:282 E: Numeric Field Identifier Missing, <211> is required.  
 L:162 M:282 E: Numeric Field Identifier Missing, <212> is required.  
 L:162 M:282 E: Numeric Field Identifier Missing, <213> is required.  
 L:197 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO: 4<211> 75<212>  
 DNA<213> Escherichia coli<220><221> tRNA<222>  
 L:200 M:282 E: Numeric Field Identifier Missing, <211> is required.  
 L:200 M:282 E: Numeric Field Identifier Missing, <212> is required.  
 L:200 M:282 E: Numeric Field Identifier Missing, <213> is required.  
 L:200 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:4  
 L:207 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO: 5<211> 1545<212>  
 DNA<213> Escherichia coli<220><221> CDS<222>  
 L:210 M:282 E: Numeric Field Identifier Missing, <211> is required.  
 L:210 M:282 E: Numeric Field Identifier Missing, <212> is required.  
 L:210 M:282 E: Numeric Field Identifier Missing, <213> is required.  
 L:210 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:5  
 L:345 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO: 6<211> 514<212>  
 PRT<213> Escherichia coli  
 L:346 M:282 E: Numeric Field Identifier Missing, <211> is required.  
 L:346 M:282 E: Numeric Field Identifier Missing, <212> is required.  
 L:346 M:282 E: Numeric Field Identifier Missing, <213> is required.  
 L:346 M:283 W: Missing Blank Line separator, <400> field identifier  
 L:447 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO: 7<211> 1545<212>  
 DNA<213> Escherichia coli  
 L:449 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
 L:452 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
 L:455 M:282 E: Numeric Field Identifier Missing, <211> is required.  
 L:455 M:282 E: Numeric Field Identifier Missing, <212> is required.  
 L:455 M:282 E: Numeric Field Identifier Missing, <213> is required.  
 L:590 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO: 8<211> 514<212>  
 PRT<213> Escherichia coli  
 L:591 M:282 E: Numeric Field Identifier Missing, <211> is required.



L:591 M:282 E: Numeric Field Identifier Missing, <212> is required.

L:591 M:282 E: Numeric Field Identifier Missing, <213> is required.

## VERIFICATION SUMMARY

PATENT APPLICATION: US/10/567,749

DATE: 02/28/2006

TIME: 12:03:11

Input Set : A:\pto.da.txt

Output Set: N:\CRF4\02282006\J567749.raw

L:591 M:283 W: Missing Blank Line separator, <400> field identifier  
L:692 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO: 9<211> 1548<212>  
DNA<213> Escherichia coli  
L:694 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
L:695 M:283 W: Missing Blank Line separator, <220> field identifier  
L:695 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
L:698 M:282 E: Numeric Field Identifier Missing, <211> is required.  
L:698 M:282 E: Numeric Field Identifier Missing, <212> is required.  
L:698 M:282 E: Numeric Field Identifier Missing, <213> is required.  
L:777 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO: 10<211> 141<212>  
PRT<213> Escherichia coli  
L:778 M:282 E: Numeric Field Identifier Missing, <211> is required.  
L:778 M:282 E: Numeric Field Identifier Missing, <212> is required.  
L:778 M:282 E: Numeric Field Identifier Missing, <213> is required.  
L:778 M:283 W: Missing Blank Line separator, <400> field identifier  
L:4 M:203 E: No. of Seq. differs, <160> Number Of Sequences:Input (10) Counted (9) /